

DP-309740/DP-309741/DP-309742

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## DIAPHRAGM-LESS VACUUM BOOSTER

### ABSTRACT OF THE DISCLOSURE

10 A vacuum booster and method utilize a power piston apparatus including a power  
piston operatively mounted within a booster housing for movement along a longitudinal  
axis of the booster, and having a sliding seal fixedly attached thereto for slidingly  
engaging a sealing surface of an annular wall of the booster housing and axially dividing  
the closed booster cavity into a high pressure cavity and a low pressure cavity. The  
sliding seal is mounted on an outer periphery of a seal support flange extending radially  
15 outward from the power piston. A convoluted divider provides an air passage connecting  
primary and secondary high pressure cavities in the booster, without the use of air tubes.